

guests, that has rarely, if ever, been equaled by any similar scientific reunion before held in this city.

It was followed early in June by an exhibition of microscopes and microscopical apparatus, given to the members of the State Medical Society, with almost equal *eclat*, and which probably aided largely to diffuse among the rural practitioners of our State an accurate knowledge of the immense strides made during the past few years in the various departments of Microscopical Science.

The new plan of constituting every alternate meeting a conversational one, determined upon in accordance with suggestions contained in the resolutions brought forward by Dr. R. S. Kenderdine, in June last, has now been on trial for about three months, and, although its practical operation does not yet prove entirely without difficulties, it is to be hoped that greater care and further experience will enable us to derive from this novel feature the marked advantages which it seems capable of affording us.

Before concluding my report I may advert to the new and agreeable field of usefulness, which has been opened to us through the relations of our parent Academy, with the Smithsonian Institution, at Washington, to wit: the reference of subjects requiring microscopical investigation to our department for examination and report; indeed, it appears to me that few opportunities of conducting towards a wide spread, enduring reputation, usefulness and influence for the Biological and Microscopical Section of the Academy, are more promising than those which invite our researches to matters of national interest and importance, such, for example, as the dust showers which occasionally visit our country. In fact, although in one respect, that of electing honorary and corresponding members, we may labor under certain restrictions on account of our connection with the Academy, so great and counterbalancing advantages are derived from this association that, to quote the words of our late Recorder, Dr. Tyson, in his last annual report, "We believe that any attempt to weigh them would result decidedly in favor of such union."

All of which is respectfully submitted,

Jos. G. RICHARDSON, *Recorder.*

REPORTS OF THE CONCHOLOGICAL SECTION.

RECORDER'S REPORT.

HALL OF THE ACADEMY, *December 1st, 1870.*

The Recorder would report that, during the year ending this date, there have been accepted, for publication in the Journal, thirty-three papers by the following authors:—

Wm. H. Dall,.....	5	T. A. Conrad,.....	4
Geo. W. Tryon, Jr.,.....	7	Jno. H. Redfield,.....	2
Prof. A. Brot,.....	1	Theo. Gill, M. D.,.....	1
James Lewis, M. D.,.....	2	W. H. Pease,.....	2
Binney and Bland,.....	1	J. G. Cooper, M. D.,.....	4
John Wolf,.....	1	Wm. G. Binney,.....	1
R. J. L. Guppy,.....	1	W. D. Hartman,.....	1

One member has resigned, and one has died.

He regrets to report that no members or correspondents have been elected during the year.

Respectfully submitted,

S. R. ROBERTS, *Recorder.*

[Dec.

CORRESPONDING SECRETARY'S REPORT.

To the Conchological Section of the Academy of Natural Sciences, Philadelphia :

The Corresponding Secretary would respectfully report that letters have been written as follows, viz. :

Jan. 10.—To Prof. A. E. Verrill, Yale College, New Haven.

Feb. 4.—To Dr. P. P. Carpenter, Montreal, C. W.

Dec. 1.—To Dr. Frederick Stoliczka, Calcutta.

Ralph Tate, London.

Albany Hancock, Newcastle-upon-Tyne.

Dr. Jno. Römer, Marbourg, Hesse.

Prof. Wm. H. Dall, Smithsonian.

The following letters have been received :

Feb. 3.—From Prof. H. Cross, Paris.

Dr. P. P. Carpenter, Montreal, C. W.

Dec. 1.—Jules Collieau, Brussels.

Respectfully submitted,

E. R. BEADLE, *Corres. Sec'y.*

LIBRARIAN'S REPORT.

The Librarian respectfully reports that there have been presented, during the past year, to the library of the Conchological Section, 104 pamphlets, 3 volumes and an almost complete suite of the publications of the Academy. Of these, 27 were received from Societies, 32 from Editors, 32 from Authors, 6 from Publication Committee, 6 from Geo. W. Tryon, Jr., 2 from Isaac Lea, 1 from Prof. Marsh, and 1 from P. P. Carpenter.

The Proceedings and Journal of the Academy were received from J. S. Phillips.

In addition, 26 pamphlets and continuations of Conchological works have been received through the Academy.

The work of transcribing the revised Catalogue of the Library has been carried on during the year as rapidly as circumstances would permit.

All of which is respectfully submitted.

EDWARD J. NOLAN, *Librarian.*

CONSERVATOR'S REPORT.

The Conservator of the Conchological Section respectfully reports that the donations to the Cabinet, during the year, have been as follows :

From REV. E. R. BEADLE. Ten species of Mollusca, principally from St. Martin's, W. I.

H. F. CARPENTER. *Limnea columella*, Say, from Providence, R. I.

J. C. COX. One hundred and thirty-four species of Australian and Polynesian land, fresh-water and marine shells.

A. O. CURRIER. A collection of land and fresh-water shells from Nicaragua, including types of several new species forming part of the collections of the MacNiel Expedition to Central America. A collection of *Limnæidæ* and *Viviparidæ* from Kent County, Mich.

W. H. DALL. Two species of *Physa* from Arizona and Nicaragua. *Gadinia reticulata*, Say, from Monterey, Cal., and one unknown species of *Gadinia*.

H. A. GILLIAT. Fifty-seven species of Australian marine shells.

F. A. HASSLER, M. D. Model of animal of *Strombus gigas*, Linn. Suite of specimens of *Helix sphaerica*, Hartm., from Syria.

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- F. V. HAYDEN, M. D. Six species of fresh-water shells, from Ancient Lake margins, Salt Lake, Utah.
- G. A. LATHROP. Five species of *Helices* from Tennessee.
- ISAAC LEA. Types of *Physa Carltoni* and eight species of *Unio* from Big Black River, Mis.
- M. L. LEACH. *Pomatiopsis lapidaria*, Say, from St. Louis, Mich.
- J. A. McNEIL. *Unio Macneilii* and a species of *Melania*.
- M. McDONALD. *Leucocheila fallax*, Say, and *Triodopsis introferens*, Bland, from Lexington.
- F. B. MEEK. *Tiara humerosa*, Meek, from Utah—fossil.
- C. W. PEALE. Specimens of *Glandina*.
- W. H. PEASE. *Melania Kanaiensis*, *Limnea rubella*, Lea, *L. turgidula*, *L. ambigua*, and *L. compacta*.
- J. S. PHILLIPS. Two species of *Marginella*; *Aricia Scottii*, Brod.; *Porcellana erythreensis*, Beck.
- J. H. REDFIELD. *Cyclophorus Nilagiricus*, Benson; fourteen species of *Auriculidæ*, eight species of *Ringicula*, and nine species of *Cylindrella*.
- S. R. ROBERTS. *Helix alternata*, Say, from Niagara Falls.
- REV. J. ROWELL. *Goniobasis circumliniata*, Tryon, and a species of *Physa*.
- W. S. W. RUSCHENBERGER. Two specimens of *Spondylus Delessertii*, Chemn., from Navigator's Island.
- MRS. LUCY W. SAY. A unique rayed specimen of *Unio cylindricus*, Say, from the Wabash river.
- JOHN WOLF. *Pleurocera Lewisii*, and *P. subulare*, Lea, from Illinois River, Canton, Ill.; two species of *Physa*; two species of *Limneide*; *Ammicola parva*, Lea, *A. rustica*, Say, and *A. decisa*, Hald., from Illinois; eleven species of *Unionidæ* and one of *Sphærium* from Canton, Ill.

The following were purchased with funds received from the sale of duplicates: *Cataulus hæmastoma*, from India; *Helix Skinneri*, Reeve, from Ceylon; twenty-eight species operculate land shells from West Inuies, new to collection, named by Thos. Bland, and six species of *Cylindrella*.

A collection of one hundred and fifty-two species was sent to Sylvanus Hancy for shells received from him in 1869. A similar collection was sent in exchange to Dr. J. C. Cox, of Sydney, N. S. W.

Selections from the publications of the Section were sent in exchange to E. A. Bielz, of Hermannstadt, F. de Malzine, of Bruxelles, E. von Martens, of Berlin, M. Petit de la Saussaye, of Paris, W. H. Pease, of Honolulu, Paul Terver, of Lyons, and Ralph Tate.

In consequence of the comparative completeness of our collection in many of the families, we have been forced to decline exchanging with foreign naturalists, except when they are able to furnish us with specified desiderata.

Through the liberality of Messrs. Jos. Jeanes, J. H. Redfield, Wm. L. Mac-tier and W. S. Vaux, we have been enabled to place sixty-four drawers under the horizontal cases. These drawers afford accommodations for the arrangement of the following families: the *Porcellanidæ*, *Cylindrellidæ*, *Cyclostomacea*, *Auriculacea*, the *Helices*, except the North American species, the *Slugs*, *Vitrinæ*, *Succineæ*, and part of the *Corbiculidæ*.

During the year, 10,060 shells have been cleansed, oiled, labelled and placed in 3771 trays. Fifty beautiful sections, illustrating the genera arranged, have been prepared by Dr. F. A. Hassler.

Your Committee on the Arrangement of the Collection have met frequently and devoted much time to the performance of the duty assigned them. They have reason to refer with satisfaction to the above summary of the results of their labors.

All of which is respectfully submitted,
EDWARD J. NOLAN, Conservator.

[Dec.

The election of Officers for the ensuing year was held, in accordance with the By-Laws, with the following result:

<i>President,</i>	. . . .	W. S. W. Ruschenberger, M. D.
<i>Vice Presidents,</i>	. . . .	Wm. S. Vaux, Jos. Carson, M. D.
<i>Recording Secretary,</i>	. . . .	Samuël B. Howell, M. D.
<i>Corresponding Secretary,</i>	. . . .	Edward D. Cope.
<i>Librarian,</i>	. . . .	Edw. J. Nolan, M. D.
<i>Treasurer,</i>	. . . .	Wm. C. Henszey.
<i>Curators,</i>	. . . .	Joseph Leidy, M. D., William S. Vaux, Geo. W. Tryon, Jr., Edw. D. Cope.
<i>Council,</i>	. . . .	Isaac Lea, Robert Bridges, M. D., Edw. S. Whelen, Isaac Hays, M. D.
<i>Publication Committee,</i>	. . . .	Jos. Leidy, M. D. Robert Bridges, M. D., Wm. S. Vaux, Geo. W. Tryon, Jr., Edw. J. Nolan, M. D.
<i>Committee on Finance,</i>	. . . .	Wm. S. Vaux, Aubrey H. Smith, Robert Bridges, M. D.